SMC7901WBRA2

1-Port ADSL2/2+ Wireless Router

Product Overview

SMC7901WBRA2, is a highly integrated residential broadband access device which combines the function of ADSL modem and wireless G access point. SMC7901WBRA2 is fully compliant with latest ADSL2/2+ and Ethernet standards like IEEE802.3/802.3u, it is also TR-067 compliant, ensuring the interoperability with your ISP's network infrastructure.

SMC7901WBRA2 provides high performance access to the Internet, downstream up to 24Mbps and upstream up to 2Mbps, making it ideal for individual users, SOHOs, and small enterprises. With SMC7901WBRA2, computers on the LAN side can communicate and share the Internet access and files with each other wired or wirelessly.

Key Features and Benefits

Enhanced ADSL2/2+ Technology

Instant always on internet connectivity for wired & wireless computers. The built-in ADSL2/2+ modem gives unrivaled asymmetric high-speed data transport at up to 24Mbps downstream and 2Mbps upstream.

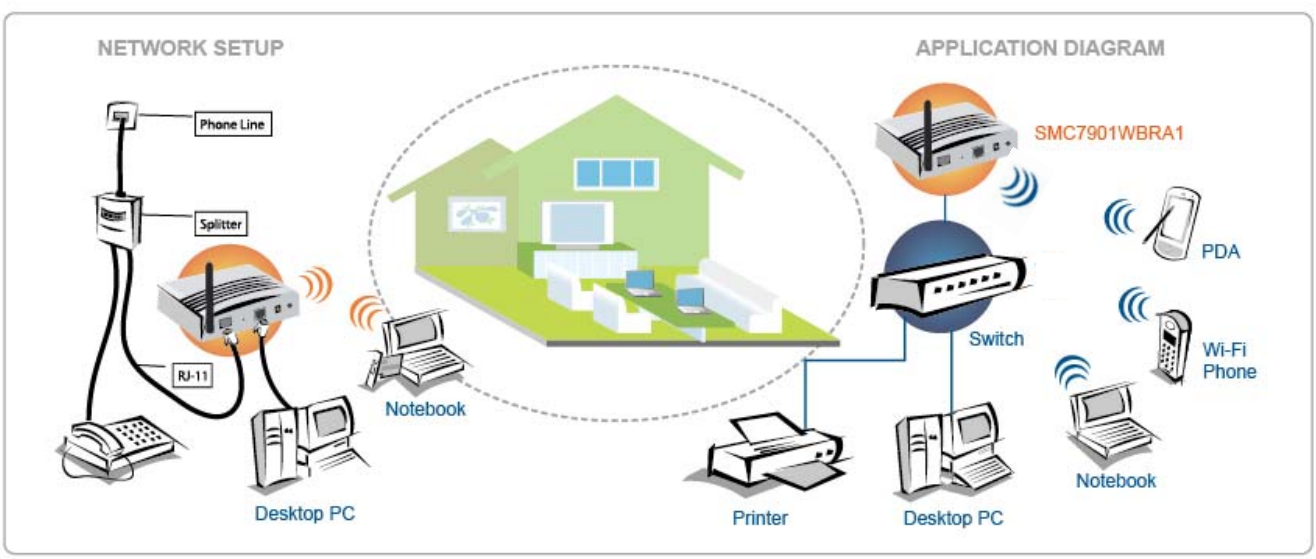
SPI Firewall Protection from Hackers

The NAT firewall with Stateful Packet Inspection (SPI), Intrusion Detection System & Denial-of-Service provides robust security from hackers while VPN pass-through allows secure connectivity to your office or corporate network. Access Control Lists with URL blocking allows you to control access to internet services & filter inappropriate web sites.

QoS

The SMC7901WBRA2 includes a build in QoS engine, which allow network administrators to allocate network resource and to prioritize real-time applications like voice & video, to enable smooth Internet phone (VoIP) and lag-free online gaming. WMM (WiFi Multimedia) delivers QoS to the wireless network, while IP QoS prioritizes outbound internet traffic.

Application Diagram



Features

HARDWARE

Physical Interface
• 1 RJ-11 ADSL Interface port (Annex A)
• 1 RJ-45 10 /00 Base-Tx Ethernet port
• 1 Reset Button
• 1 DC Power input
• 1 Power On / Off Switch

LED Indicators
• Power / WLAN / Ethernet / Data / Link

SOFTWARE

ADSL Compliance
ANSI T1.413 Issue 2
• G.992.1 (G.dmt) Annex A
• G.992.2 (G.lite) Annex A
• G.992.3 ADSL2 (G.dmt.bis) Annex A/J/K/L/M
• G.992.4 ADSL2 (G.lite.bis)
• G.992.5 ADSL2+ Annex A/M
• G.994.1 (G.hs)

ATM Features
• Support up to 8 ATM PVCs
• Supports ATM Forum UNI 3.1/4.0 PVC
• Supports UBR, CBR, and rt-VBR and nrt-VBR service classes
• Provides ATM layer functionality
• Support Traffic shaping (CBR, UBR, rt/nrt-VBR)
• Supports PPPoA (RFC2364)
• Supports MPoA functionality (RFC2684)
• Supports IP over ATM (IPoA)
• Support ATM cell format ITU -T I.361
• Supports OAM F4/F5 loopback

PPP Functions
• Point-to-Point Protocol (RFC1661)
• PPP over ATM (RFC2364)
• PPP over Ethernet (RFC2516)
• User Authentication
  - CHAP (RFC1994)
  - PAP (RFC1334)

Bridge Features
• Ethernet bridging
• Support Transparent Bridging
  - MAC address learning
  - MAC address filtering and protocol filtering for up-link

Routing Features
• RIP v1 / v2
• Static routing
• PPP / PPPoE (RFC 2516)
• NAT with ALGs
• NAPT
• IGMP v1 / v2
• IGMP Proxy / snooping
• IPv4
• IP pass through
• Virtual Server port forwarding

VLAN Support
• 8 VLANs supported
• VLAN pass-through

QoS
• IP ToS function (RFC 1349)
• 802.1p bit remarking
• Traffic classification by port, 802.1p , ToS and DSCP

Security
• Management Access Control for WAN
• User authentication for PPP (PAP / CHAP)
• DDoS (Dynamic DoS) Protection

Firewall
• Stateful Packet Inspection (SPI), NAT, DMZ
• Filtering – IP Filtering, MAC Filtering, URL Filtering
• ACL (Access Control List)
• VPN (IPSec,PPTP,L2TP) pass-through

Management
• Access Administration
• Web based Configuration - HTTP server
• System configuration backup and restore
• SNMP Support (V.1 and V.2C) – MIB I, MIB II (RFC1213)
• Firmware Upgrade Available by Web / TFTP
• Remote Firmware Upgradeable
• UPnP
• Easy Setup Wizard
• TR069 Remote Management Diagnostic and ATM loop back

Wireless Features
• IEEE802.11b/g, 2.4GHz frequency band, 13 channels (ETSI)
• 2dBi antenna gain, max. output power 20dBi EIRP
• SSID Broadcast
• WMM Support
• WEP (64/128 bit), WPA-TKIP/PSK, WPA2-AES/PSK, 802.1X
• MAC address filtering
• Configurable transmit power level and data rate
• WDS Support
• TR067 Ensures product meets all ADSL IOT test

Weight & Dimension
• (L)132 x (W)90 x (H)33.5 mm, 157 (g)

Operating Environment
• 0° C ~ 40° C/ 32° F ~ 104° F
• 10% ~ 80% Non-condensing

Certifications
• FCC Class B, CE Mark, RoHS compliant

Warranty
• Please check www.smc.com for the warranty terms in your country/region.

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